

AMENDMENTS TO THE CLAIMS:

1.-9. (Cancelled)

10. (Currently amended) A stripping method which comprises stripping a resist film on a semiconductor wafer having an exposed metal film, by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy aromatic compound, (c) a hydroxylamine, (d) water and (e) a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones as essential components, wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the exposed metal film.

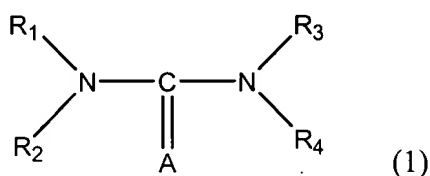
C 11. (Currently amended) A stripping method which comprises stripping a resist film on a semiconductor wafer having an exposed metal film, by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy aromatic compound, (c) a hydroxylamine, (d) water and (e) a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones as essential components,

wherein the amounts of the components (a), (b), (c) and (d) are 1 to 60% by mass, 0.1 to 20% by mass, 5 to 70% by mass and 2 to 40% by mass, respectively, and

wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the exposed metal film.

12. (Currently amended) A stripping method which comprises stripping a resist film on a semiconductor wafer having an exposed metal film, by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy aromatic compound, and a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones, as essential components,

wherein the component (a) is a compound represented by the following general formula (1):



(1)
(R1, R2, R3 and R4 are each independently a hydrogen atom or an alkyl group having 1 to 3 carbon atoms; and A is an oxygen atom or a sulfur atom), and

wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the exposed metal film.

13. (Currently amended) A stripping method which comprises stripping a resist film on a semiconductor wafer having an exposed metal film, by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy aromatic compound, having a benzene derivative having at least two phenolic hydroxyl groups in the molecule, and a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones as essential components, wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the exposed metal film.

14. (Currently amended) A stripping method which comprises stripping a resist film on a semiconductor wafer having an exposed metal film, by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy aromatic compound, and a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones, as essential components,

C1 wherein the component (b) is a benzene derivative having at least two phenolic hydroxyl groups in the molecule having at least one compound selected from the group consisting of pyrogallol, hydroxyhydroquinone, fluoroglucinol, gallic acid and tannic acid, and wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the exposed metal film.

15. (Cancelled)

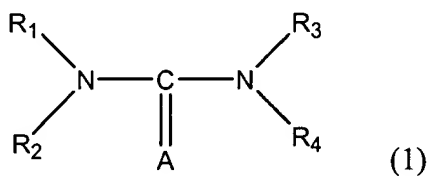
16. (Currently amended) A stripping method which comprises:
forming, on a semiconductor wafer, a metal film and an insulating film in this order;
forming a resist film thereon;
conducting dry etching with the resist film being used as a mask, to form, in the
insulating film, dents reaching the metal film; then
stripping the resist film and/or the residue of etching by using a stripper composition
containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy
aromatic compound, (c) a hydroxylamine or an alkanolamine, (d) water, and (e) a water soluble
organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl
acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones, as essential components,
wherein components (a) and (b) supplement each other to form a coating layer that imparts
hydrophobicity to the metal film.

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17. (Currently amended) A stripping method which comprises:
forming, on a semiconductor wafer, a metal film and an insulating film in this order;
forming a resist film thereon;
conducting dry etching with the resist film being used as a mask, to form, in the
insulating film, dents reaching the metal film; then
stripping the resist film and/or the residue of etching by using a stripper composition
containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy
aromatic compound, (c) a hydroxylamine or an alkanolamine, (d) water, and (e) a water soluble
organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl
acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones, as essential components,
wherein the amounts of the components (a), (b), (c) and (d) are 1 to 60% by mass, 0.1 to
20% by mass, 5 to 70% by mass and 2 to 40% by mass, respectively, and
wherein components (a) and (b) supplement each other to form a coating layer that
imparts hydrophobicity to the metal film.

18. (Currently amended) A stripping method which comprises:
forming, on a semiconductor wafer, a metal film and an insulating film in this order;
forming a resist film thereon;
conducting dry etching with the resist film being used as a mask, to form, in the
insulating film, dents reaching the metal film; then

stripping the resist film and/or the residue of etching by using a stripper composition
containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy
aromatic compound, and a water soluble organic solvent selected from the group including
sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones,
imidazolidinones as essential components,

wherein the component (a) is a compound represented by the following general formula
(1):



(R1, R2, R3 and R4 are each independently a hydrogen atom or an alkyl group having 1
to 3 carbon atoms; and A is an oxygen atom or a sulfur atom), and

wherein components (a) and (b) supplement each other to form a coating layer that
imparts hydrophobicity to the metal film.

19. (Currently amended) A stripping method which comprises:
forming, on a semiconductor wafer, a metal film and an insulating film in this order;
forming a resist film thereon;
conducting dry etching with the resist film being used as a mask, to form, in the
insulating film, dents reaching the metal film; then
stripping the resist film and/or the residue of etching by using a stripper composition
containing an anticorrosive agent which contains (a) urea or a urea derivative and (b) a hydroxy
aromatic compound, having a benzene derivative having at least two phenolic hydroxyl groups in
the molecule, and a water soluble organic solvent selected from the group including sulfoxides,
dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones,
imidazolidinones, as essential components, wherein components (a) and (b) supplement each
other to form a coating layer that imparts hydrophobicity to the metal film.

20. (Currently amended) A stripping method which comprises:
forming, on a semiconductor wafer, a metal film and an insulating film in this order;
forming a resist film thereon;
conducting dry etching with the resist film being used as a mask, to form, in the
insulating film, dents reaching the metal film; then
stripping the resist film and/or the residue of etching by using a stripper composition
containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy
aromatic compound, and a water soluble organic solvent selected from the group including
sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones,
imidazolidinones, as essential components,
wherein the component (b) is a benzene derivative having at least two phenolic hydroxyl
groups in the molecule having at least one compound selected from the group consisting of
pyrogallol, hydroxyhydroquinone, fluoroglucinol, gallic acid and tannic acid, and
wherein components (a) and (b) supplement each other to form a coating layer that
imparts hydrophobicity to the metal film.

21. (Cancelled)

22. (Currently amended) A stripping method which comprises:

forming, on a semiconductor wafer, a metal film, a first insulating film and a second insulating film having desired openings;

conducting dry etching with the second insulating film being used as a mask, to form, in the first insulating film, dents reaching the metal film; then

stripping the residue of etching by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy aromatic compound, (c) a hydroxylamine or an alkanolamine, (d) water and (e) a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones as essential components, wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the metal film.

23. (Currently amended) A stripping method which comprises:

forming, on a semiconductor wafer, a metal film, a first insulating film and a second insulating film having desired openings;

conducting dry etching with the second insulating film being used as a mask, to form, in the first insulating film, dents reaching the metal film; then

stripping the residue of etching by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy aromatic compound, (c) a hydroxylamine or an alkanolamine, (d) water and (e) a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones as essential components,

wherein the amounts of the components (a), (b), (c) and (d) are 1 to 60% by mass, 0.1 to 20% by mass, 5 to 70% by mass and 2 to 40% by mass, respectively, and

wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the metal film.

24. (Currently amended) A stripping method which comprises:

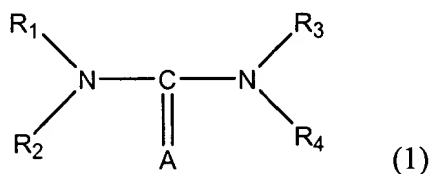
forming, on a semiconductor wafer, a metal film, a first insulating film and a second insulating film having desired openings;

conducting dry etching with the second insulating film being used as a mask, to form, in the first insulating film, dents reaching the metal film; then

stripping the residue of etching by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy aromatic compound, and a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones, as essential components,

wherein the component (a) is a compound represented by the following general formula

(1):



(R1, R2, R3 and R4 are each independently a hydrogen atom or an alkyl group having 1 to 3 carbon atoms; and A is an oxygen atom or a sulfur atom), and

wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the metal film.

25. (Currently amended) A stripping method which comprises:
forming, on a semiconductor wafer, a metal film, a first insulating film and a second insulating film having desired openings;
conducting dry etching with the second insulating film being used as a mask, to form, in the first insulating film, dents reaching the metal film; then
stripping the residue of etching by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative and (b) a hydroxy aromatic compound, having a benzene derivative having at least two phenolic hydroxyl groups in the molecule, and a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones, as essential components, and
wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the metal film.

26. (Currently amended) A stripping method which comprises:
forming, on a semiconductor wafer, a metal film, a first insulating film and a second insulating film having desired openings;
conducting dry etching with the second insulating film being used as a mask, to form, in the first insulating film, dents reaching the metal film; then
stripping the residue of etching by using a stripper composition containing an anticorrosive agent which contains (a) urea or a urea derivative, (b) a hydroxy aromatic compound, and a water soluble organic solvent selected from the group including sulfoxides, dimethylformamides, dimethyl acetamides, glycols, glycol ethers, pyrrolidones, imidazolidinones as essential components,
wherein the component (b) is a benzene derivative having at least two phenolic hydroxyl groups in the molecule having at least one compound selected from the group consisting of pyrogallol, hydroxyhydroquinone, fluoroglucinol, gallic acid and tannic acid, and
wherein components (a) and (b) supplement each other to form a coating layer that imparts hydrophobicity to the metal film.

27. (Cancelled)

28. (Original) A stripping method according to Claim 10, wherein the metal film is a copper film.

29. (Original) A stripping method according to Claim 11, wherein the metal film is a copper film.

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